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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,478	02/07/2001	Carlo Amalfitano	TAN-2-1473.01.US	4704
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 09/778,478 AMALFITANO, CARLO Office Action Summary Examiner Art Unit SABA TSEGAYE 2619 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 19 March 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 25-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. 6) Claim(s) 25-38 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner, Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/fi.iall Date ______.

Paper No(s)/Mail Date.

5) Notice of Informal Patent Application

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/19/08 has been entered.
- Claims 25-38 are pending. Currently no claims are in condition for allowance.

Claim Rejections - 35 USC § 102

 Claims 25, 26, 29-33 and 36-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Hou et al. (US 6.324,184 B1).

Regarding claims 25 and 32, Hou discloses a method for use in a base station (fig. 5) for providing multiple grades ("weighing factor"; see col. 1 lines 10-31) of service to a plurality of subscriber units requesting traffic channels (the invention is equally suitable for use with wireless network; column 3, lines 56), the method comprising:

detecting a request from a plurality of subscriber units to transmit data to or receive data from the base station using a plurality of traffic channels (central controller 210 allocates bandwidth on the transmission path 220 to manage communications between the subscriber units and the central controller. Path 220 may comprise one or more channels shared among the subscriber units: for example see col. 3, lines 62-67); and

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assigning a priority level for reach of the detected requests, the priority level being associated with the subscriber unit transmitting the request (the MAC management entity may maintain a historical record of bandwidth usage for each user. Then, users who have relatively low usage levels may be given higher priority when requesting a bandwidth level that might otherwise be limited; col. 11. lines 50-60):

comparing the priority level for each of the subscriber unit against a threshold (a maximum (e.g., ceiling) bandwidth can be imposed on the user (column 11, lines 46-47)); and

allocating at least one traffic channel to each of the subscriber units requesting to transmit data to or receive data from the base station based on the priority level of the subscriber unit (the MAC management entity may maintain a historical record of bandwidth usage for each user and the MAC management entity may further allocate bandwidth according to historical profile of total channel bandwidth usage. The system also, maintains a minimum bandwidth for each subscriber unit; and maintains a count of the number of active users on each channel; for example see col. 8, lines 7-14 and col. 9, lines 1-7).

Regarding claims 26 and 33, Hou discloses wherein the priority level of the subscriber unit depends on the subscriber unit's historical usage of base station resources (the MAC management entity may maintain a historical record of bandwidth usage for each user. Then, users who have relatively low usage levels may be given higher priority when requesting a bandwidth level that might otherwise be limited; col. 11, lines 50-60).

Regarding claims 29 and 36, Hou discloses wherein the subscriber unit is assigned a higher priority level when the subscriber unit's historical usage is lower than the threshold (users who have relatively low usage levels may be given higher priority when requesting a bandwidth level that might otherwise be limited; col. 11, lines 50-60).

Regarding claims 30 and 37, Hou discloses wherein the higher priority level results in the subscriber unit being allocated more traffic channels than a subscriber unit assigned a lower priority level (users who have relatively low usage levels may be given higher priority when requesting a bandwidth level that might otherwise be limited; col. 11, lines 50-60; ... bandwidth corresponds to a number of slots (or frames, or super-frames, or the like) which are allocated to a subscriber; column 9, lines 38-44; lines 55-60).

Regarding claims 31 and 38, Hou discloses reserving at least one traffic channel for subscriber units having the lowest priority level; and creating a queue of detected requests from subscriber units with the lowest priority level to ensure that subscriber units with the lowest priority level are allocated the at least one traffic channel at predetermined times (see fig. 5; the system maintains a minimum bandwidth (time slot) for each subscriber unit; and maintains a count of the number of active users on each channel; see col. 8, lines 7-14 and col. 9, lines 1-7).

Claim Rejections - 35 USC § 103

 Claims 27, 28, 34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hou et al. (US 6.324.184 B1) in view of Dillon et al. (US 6.473.793). Application/Control Number: 09/778,478

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Hou discloses all the claim limitations as stated above. Further, Hou discloses that there may be a concern that the dynamic bandwidth allocation scheme never reduces the assigned bandwidth of a user when the user continually uses all of its assigned bandwidth. In this case some of the bandwidth assignment of user in question can be redistributed to other users who use all or most of their assigned bandwidth (col. 11, lines 36-46). However, Hou does not expressly disclose that if the previous historical usage by the user is higher than the threshold, the user is assigned a lower priority level for transmitting data information.

Dillon teaches that historically low data throughput users can get high data throughput volumes on a periodic based, while historically high data throughput users are throttled when they abuse system resources. To implement throttling based on historical usage patterns, a hybrid gateway compares the thresholds defined for a requesting terminal's level of service and its measures running average data throughput to determine if the requesting terminal's bandwidth should be reduced (throttled) (see col. 16, lines 19-24; line 59-col. 17, line 29).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hou's apparatus to assign a user a lower priority level, as taught by Dillon in order to ensure that historically low data throughput users can get high data throughput volumes on a periodic basis, while historically high data throughput users are throttled when they abuse the system resources and to provide a system that ensure fair access to the appropriate level of system resources contracted for each subscriber as explained by Dillon on col. 1, lines 54-55.

Response to Arguments

 Applicant's arguments with respect to claims 25-38 have been considered but are moot in view of the new ground(s) of rejection.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to SABA TSEGAYE whose telephone number is (571)272-3091.

The examiner can normally be reached on Monday-Friday (7:30-5:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wing F Chan/ Supervisory Patent Examiner, Art Unit 2619 3/27/08 Saba Tsegaye Examiner Art Unit 2619

/S. T./ March 27, 2008